

**ADDENDUM #1
TO SPEC. 05-300**

**“O” STREET WIDENING
PROJECT 701780, BEING IN
“O” STREET FROM 45TH TO 52ND STREET**

Addendum #1 to Spec. 05-300 for above project, bids to be opened on Thursday, December 22, 2005 at 12:00 noon.

Please note the attached changes for the above referenced specification.

All other terms and conditions to remain unchanged.

Dated this 19th day of December, 2005.

Purchasing Department

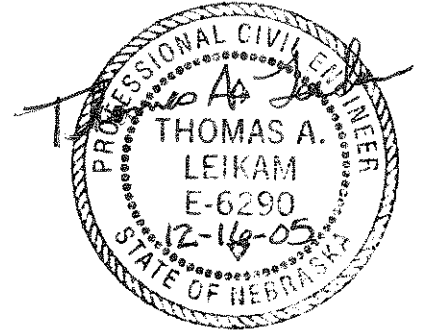
Vince M. Mejer
Purchasing Agent

ADDENDUM NO. 1

"O" STREET WIDENING PROJECT 701780 FROM 45TH TO 52ND STREET &
WATER MAIN PROJECT 700272 FROM 33RD TO 52ND STREET

Specification No. 05-300

December 16, 2005



1. Refer to the Contract Documents, Notice to Bidders

Revise the second paragraph regarding the bid date as follows:

"Sealed bids will be received by the City of Lincoln, Nebraska on or before 12:00 noon **Thursday, December 22, 2005**, in the office of the Purchasing Agent, Suite 200, K Street Complex, Southwest Wing, 440 South 8th Street, Lincoln, Nebraska 68508. Bids will be publicly opened and read at the K Street Complex."

2. Refer to the Contract Documents, Project Item Schedule

Delete the Project Item Schedule/Bid Form and replace with the enclosed Project Item Schedule. The proposed project schedule has changes in quantities and addition of new pay items as outlined below along with several corrections in the description of pay items and units of measurement. The schedule has also been revised to include the fixed price for the pay items "Removal of Unsuitable Material", "Construction Staking for Utility Conflicts" and "Variable Message Sign".

3. Refer to Plan Sheet 10, Summary of Quantities

Revise the quantities for the various groups shown on the plans as follows:

Grading and Removal Items:

Revise the following quantities:

- 01.0100 – Pavement and Sidewalk Removal, increase the total quantity from 14,875 to 14,912 cubic yards (increase the quantity shown for the water main to 854 cubic yards).
- 01.0220 – Type "B" Sawing, increase the total quantity from 11,250 to 11,297 linear feet (increase the quantity shown for the water main to 7,019 linear feet).
- 01.0230 – Type "C" Sawing, increase the total quantity from 636 to 843 linear feet (increase the quantity shown for the water main to 726 linear feet).
- 02.0090 - Remove and Replace Fence, increase the quantity from 60 to 102 linear feet.

Add the following pay item:

50.0050 - Construction Staking for Utility Conflicts, 40 Hours.

Miscellaneous Items:

Revise the following quantities:

22.0710 – Standard Manhole, Type “S”, increase the quantity from 12.61 to 15.37 vertical feet.

Add the following pay items:

22.0810 – Construct Sanitary Sewer Service, 3 Each

22.0840 – 6” Pipe Sewer Service, 180 Linear Feet

50.0001 – 6” PVC Plug, 3 Each

Paving Items:

The following adjustments in quantities approximate the additional work required for construction of the right turn lanes and driveways into the development at the southeast corner of 48th and “O” Street. Negotiations are currently underway to finalize the location of the drives and once completed a formal plan revision will be made after award of a contract. These also include additional paving quantities associated with extending the reconstruction of the water services to the curb stop boxes.

Revise the pay items as follows:

50.0040 – 10” Doweled P.C. Concrete Pavement W/Integral Curb, decrease the quantity from 27,810 to 27,751 square yards.

03.0055 - 10” P.C. Concrete Pavement W/Integral Curb, increase the quantity from 11,566 to 12,201 square yards.

50.0040 – 4” Foundation Course, increase the quantity from 43,297 to 43,873 square yards.

03.0020 - 9” P.C. Concrete Pavement, increase the total quantity from 3,667 to 3,751 square yards (increase the quantity shown for the water main to 3,578 square yards).

03.0090 - 6” P.C. Concrete Pavement W/Integral Curb, decrease the quantity from 2,274 to 1,850 square yards.

07.0030 - 6” Concrete Driveway, increase the total quantity from 24,583 to 26,026 square feet (increase the quantity shown for the roadway to 25,905 square feet and the quantity shown for the water main to 121 square feet).

07.0020 – 4” Concrete Sidewalk, increase the total quantity from 54,915 to 55,978 square feet (increase the quantity shown for the roadway to 52,686 and the quantity shown for the water main to 3,292 square feet).

06.0020 – Combined Curb and Gutter, increase the total quantity from 4,171 to 4,328 linear feet (increase the quantity shown for the water main to 456 linear feet).

50.0035 – Temporary Sidewalk, increase the quantity from 140 to 180 tons.

01.0170 – Adjust Manhole to Grade, Complete, decrease the quantity from 26 to 25 Each.

4. Refer to Plan Sheet 11, Summary of Quantities

Signing Items:

Refer to the following signing items and revise the description to read as follows:

50.0001 Sign Post (Breakaway), revise pay item description to read "Install Sign Post (Breakaway)".

50.0001 Sign Post, revise pay item description to read "Install Sign Post".

Traffic Signal and Lighting Items:

Add the following pay item:

24.0521 – Install and Remove Temporary Traffic Signal Complete, 1 Each. This pay item is for the temporary signal at 52nd and "O" Street.

Delete pay item 24.0920 – Intraduct, 3", 206 Linear Feet and replace with the following pay item:

50.0005 – Conduit Sock, 3", 3-Cell, 206 Linear Feet (The material shall be "Maxell 3", 3-cell Sock).

5. Refer to Plan Sheet 12, Summary of Quantities

Storm Sewer Items:

Revise the pay items as follows:

21.0770 – 72" Storm Sewer Inlet, Complete, decrease the quantity from 39 to 37 each.

21.0820 – Grate Inlet, Type "F-1", Complete, decrease the quantity from 15 to 13 each.

21.1070 – Tap Existing R.C.P., increase the quantity from 5 to 6 each.

21.0110 – 15" R.C.P. Storm Sewer, Class III increase the quantity from 2,649 to 2,724 linear feet.

21.0100 – 18" R.C.P. Storm Sewer, Class III decrease the quantity from 1,911 to 1,805 linear feet.

21.0090 – 24" R.C.P. Storm Sewer, Class III increase the quantity from 569 to 584 linear feet.

6. Refer to Plan Sheet 13, Summary of Quantities

Water Main Items:

Revise the pay items as follows:

23.0007 – 8" Water Main, increase the quantity from 97 to 165 linear feet.

23.0008 – 6" Water Main, decrease the quantity from 754 to 749 linear feet.

23.0280 – 12" x 6" Tapping Sleeve & Valve, M.J., increase the quantity from 1 to 3 each.

23.0430 – 12" Butterfly Valve, M.J., decrease the quantity from 31 to 23 each.

23.0450 – 8" Gate Valve, M.J. increase the quantity from 3 to 6 each.

23.0460 – 6" Gate Valve, M.J. increase the quantity from 24 to 29 each.
 23.0510 – 12" Retainer Glands, M.J., increase the quantity from 179 to 181 each.
 23.0520 – 8" Retainer Glands, M.J., increase the quantity from 58 to 74 each.
 23.0530 – 6" Retainer Glands, M.J., increase the quantity from 47 to 62 each.
 23.0579 – 12" x 8" Tee, M.J., increase the quantity from 8 to 9 each.
 23.0580 – 12" x 6" Tee, M.J., decrease the quantity from 17 to 16 each.
 23.0623 – 8" x 6" Reducer, M.J., increase the quantity from 9 to 10 each.
 23.0648 – 12" Solid Sleeve, M.J. (L = 12"), increase the quantity from 4 to 13 each.
 23.0654 – 6" Dual Purpose Sleeve, M.J. (L = 15"), increase the quantity from 15 to 18 each.
 23.0655 – 4" Dual Purpose Sleeve, M.J. (L = 12"), increase the quantity from 2 to 3 each.
 23.0661 – 8" Plug, M.J., increase the quantity from 1 to 4 each.
 23.0662 – 6" Plug, M.J., increase the quantity from 7 to 9 each.
 23.0665 – Concrete for Thrust Blocks & Anchorages, increase the quantity from 31.0 to 31.9 cubic yards.
 23.0685 – Reconstruct Water Service, increase the quantity from 58 to 60 each.
 23.0695 – 2" Copper Water Service Pipe, increase the quantity from 160 to 295 linear feet.
 23.0700 – 1.5" Copper Water Service Pipe, increase the quantity from 52 to 92 linear feet.
 23.0710 – 1" Copper Water Service Pipe, increase the quantity from 188 to 213 linear feet.
 23.0715 – 0.75" Copper Water Service Pipe, increase the quantity from 523 to 709 linear feet.
 23.0930 – Remove 12" Water Main, increase the quantity from 133 to 163 linear feet.
 23.0950 – Remove 6" Water Main, increase the quantity from 128 to 203 linear feet.
 50.0001 – 6" Dual Purpose Retainer Glands, increase the quantity from 30 to 36 each.
 50.0001 – 4" Dual Purpose Retainer Glands, increase the quantity from 5 to 7 each.

Revise the pay item description and quantities for the following:

23.0290 – 12" x 4" Tapping Sleeve & Valve, M.J., increase the quantity from 1 to 4 each
 23.0360 – 6" x 4" Tapping Sleeve & Valve, M.J., increase the quantity from 2 to 3 each.

Add the following pay items:

23.0270 – 12" x 8" Tapping Sleeve & Valve, M.J., 3 each.
 23.0561 – 8" x 11.25 Degree Bend, M.J., 1 each.
 23.0680 – Construct Water Service, 3 each.

7. Refer to Project Special Provisions

Add the following Special Provision.

PREQUALIFICATION REQUIREMENTS

All Contractors submitting bids on this project shall be pre-qualified with the Nebraska Department of Roads for constructing Group 3 Work – Concrete Pavement or Group 10 – General (All Classes). Prequalification of Bidders shall be in accordance with the requirements outlined in Section 102 of the State of Nebraska Standard Specifications for Highway Construction.

8. Refer to Project Special Provisions, Construction Staking

Delete the existing special provision for construction staking and replace with the following:

CONSTRUCTION STAKING

The Contractor shall provide construction staking for the project as outlined in the 2004 Supplemental Specifications to the City of Lincoln Standard Specifications for Municipal Construction. Payment for construction staking for the project shall be paid for at the Contract Lump Sum amount bid for the pay item "Construction Staking" as outlined in the City's Supplemental Specifications.

In addition to the scope of work outlined in the supplemental specifications, the Contractor shall provide staking of proposed project features as a reference for private utilities to use in relocation of facilities that will be in conflict with the proposed construction of the project as directed by the Engineer. This may include staking the location of proposed pavement, sidewalks, retaining walls and the back of curbs; finished grade elevations; locations and elevations of proposed storm sewers, sanitary sewers, and water mains; locations of roadway lighting and traffic signal components; and right-of-way or easement lines as required by the utility to complete the relocation work concurrently with the work on the project. The Contractor shall familiarize themselves with the proposed utility relocations outlined in the Status of Utility to determine the extent of construction staking work that may be required to facilitate the utility relocations. The Contractor shall not proceed with any staking work associated with providing reference points for the utility relocations without prior approval of the Engineer.

Measurement of survey staking to facilitate utility relocations shall be the hours recorded by the Engineer for the work completed in the field (office preparation time and travel time will not be measured for payment and shall be considered subsidiary to the payment for the field work). Payment for survey staking of proposed project features to facilitate private utility relocations shall be made at the fixed hourly rate of \$100 per hour in accordance with the contract item "Construction Staking for Utility Conflicts". Said payment shall include all labor, equipment, materials and incidentals required to provide survey staking of proposed project features that are required to facilitate relocation of utilities concurrently with construction of the project as directed by the Engineer.

9. Refer to Project Special Provisions

Add the attached Appendix "A" that includes the requirements for reconstructing fire services.

10. Refer to Project Special Provisions, Traffic Control

Add the following two paragraphs following the first paragraph of the traffic control special provision.

"The layouts shown on the plans for traffic control devices during the various phases of construction are for informational purposes only and are intended to identify typical requirements needed to accommodate traffic during that particular phase of the project. The traffic control plans are not intended to identify all possible construction scenarios that may be

encountered during the prosecution of the work. The Contractor is fully responsible for developing all final drawings depicting the proposed layout of traffic control devices that are required to construct the work in the manner and sequence proposed by the Contractor. The Contractor shall use the layouts shown on the plans in the development of the final traffic control layout based upon the actual construction sequencing and work zone requirements used to complete the work.

The final layout of traffic control devices shall be developed in accordance with the requirements outlined for Traffic Control in the City's Supplemental Specifications and in accordance with the details shown on the City Standard Plans. All traffic control plans shall detail the proposed layout of all traffic control devices required for shifting traffic, lane closures, street closures or drive closures, and shall include all necessary signage and barricades required to maintain or detour vehicular traffic and pedestrians through or around the construction area. The traffic control plans shall be approved by the City Traffic Engineer prior to commencing with the work on each phase of the project as outlined in the Supplemental Specifications."

11. Refer to the attached sketch, "O Street Right Turn Lane"

The attached sketch, "O Street Right Turn Lane", outlines the approximate work required to construct a right turn lane along O Street at the entrance to the proposed development at the southeast corner of the 48th and O Street intersection. The approximate paving, storm sewer, water service, and sewer service quantities associated with this work have been included in the revised project quantities. All final quantity changes associated with the addition of the right turn lane will be included in a formal plan revision to the project following award of the contract. The additional work associated with construction of the right turn lane at this location shall not change the substantial or final completion dates shown in the Special Provisions for the work associated with Phase I (includes Phases IA, IB, IC and ID) of this project.

In addition to the work associated with the right turn lane on "O" Street, the design for the proposed northbound to eastbound right turn lane at the 48th and "O" Street intersection will be modified to accommodate access to the proposed development at the southeast corner of the intersection. This will include lengthening of the turn lane and construction of a driveway to the proposed development off of 48th Street but will not include construction of a frontage road between the development and "M" Street as discussed at the Pre-Bid Meeting. The approximate paving quantities associated with this work have been included in the revised project quantities. All final quantity changes associated with the modifications of the right turn lane and driveway construction at this location will be included in a formal plan revision to the project following award of the contract. The additional work associated with modifications to the right turn lane at this location shall not change the substantial or final completion dates shown in the Special Provisions for the work associated with Phase I (includes Phases IA, IB, IC and ID) of this project.

12. Refer to Plan Sheet 59, Construction Phasing

Under the Phase III Quantities, delete the words "No Quantities" and replace with "Temporary Sidewalk – 167 Square Yards".

Add a build note as follows:

“Build Temporary Sidewalk, Station 193+50 - left to Station 196+50 – left as directed by the Engineer to provide access to the residences and businesses along the west side of 48th Street during Phase III construction. The sidewalk shall be 5’-0” wide or as directed by the Engineer and shall connect to the existing sidewalk along M Street and the drive to Petco near Station 196+50”.

13. Refer to Plan Sheet 93, Roadway Construction

Add the following build tabs for the construction of new sanitary sewer services for the redevelopment at the southeast corner of 48th and “O” Street (verify station prior to construction of new sewer service):

Build Sanitary Sewer Service		
Station	Side	Each
102+07.11	Rt.	1
103+84.94	Rt.	1
105+40.00	Rt.	1

Build Sewer Service Pipe			
Station	Side	Size	Linear Feet
102+07.11	Lt. & Rt.	6”	65
103+84.94	Lt. & Rt.	6”	65
105+40.00	Lt. & Rt.	6”	50

Build Sanitary Sewer Fittings			
Station	Side	Description	Each
102+07.11	Rt.	6” PVC Plug	1
103+84.94	Rt.	6” PVC Plug	1
105+40.00	Rt.	6” PVC Plug	1

The sanitary sewer services are for the proposed redevelopment at the southeast corner of 48th and “O” Street and the station of the sewer tap and length of sewer service pipe may vary from that shown in the aforementioned tables based upon the final location of the buildings at the development. None of the buildings served by the sewer services will have basements. The sewer service shall be constructed in accordance with the requirements outlined in the Standard Specifications. The service pipe shall extend to a minimum of three feet beyond the right-of-way line or as directed by the Engineer and capped.

14. Refer to Plan Sheet 94, Roadway Construction

Add a build tab for "Standard Manhole, Type S", Station 107+82.27, 22.30' Rt., Rim Elevation 1224.00, Flowline 1208.63, Vertical Feet 15.37, 1 Each.

Delete the item for adjusting the manhole to grade at Station 107+82.27.

15. Refer to Plan Sheet 95, Roadway Construction

Delete the build tab for "Standard Manhole, Type S". This sanitary sewer manhole will not be rebuilt and the pavement jog around the manhole as shown on the plans will not be required.

Revise the quantity for the 10" Doweled P.C.C. Pavement W/Integral Curb at the right side of the roadway as follows:

Station 110+00.00 to Station 113+12.33, Rt. Side, Revised Quantity 1161 Square Yards.

16. Refer to Plan Sheet 246, Water Main

At Station 47+23.80, 95.0' Rt., add reconstruction of the existing water service. Quantities as follows:

- Reconstruct Water Service – 1 Each
- 0.75" Copper Water Service Pipe – 20 Linear Feet
- Pavement and Sidewalk Removal – 2 Cubic Yards
- Type "C" Sawing – 37 Linear Feet
- 9" P.C. Concrete Pavement – 2 Square Yards
- 4" Concrete Sidewalk – 105 Square Feet
- Combined Curb and Gutter – 10 Linear Feet.

At Station 47+52.04, 11.49' Rt., add a 6" Gate Valve. Quantities as follows:

- 6" Gate Valve, M.J. – 1 Each
- 6" Retainer Glands, M.J. – 2 Each

At Station 48+87.27, 38.00' Rt., add a 12" x 4" Tapping Sleeve and Valve. Quantities as follows:

- 12" x 4" Tapping Sleeve and Valve, M.J. – 1 Each

At Station 50+51.34, 11.90' Rt., add a 12" Solid Sleeve. Quantities as follows:

- 12" Solid Sleeve, M.J. – 1 Each
- 12" Retainer Glands, M.J. – 2 Each

17. Refer to Plan Sheets 247, Water Main

At Station 54+75.43, 43.99' Rt., add a 4" Dual Purpose Sleeve. Quantities as follows:

4" Dual Purpose Sleeve, M.J. – 1 Each
4" Dual Purpose Retainer Glands, M.J. – 2 Each

At Station 54+72.52, 6.01' Rt., add a 6" Gate Valve. Quantities as follows:

6" Gate Valve, M.J. – 1 Each
6" Retainer Glands, M.J. – 2 Each

At Station 54+75.91, 6.36' Rt., delete a 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)
12" Retainer Glands, M.J. – 2 Each (delete)

18. Refer to Plan Sheets 248, Water Main

At Station 60+58.80, 53.0' Lt., add a 6" x 4" Tapping Sleeve & Valve. Quantities as follows:

6" x 4" Tapping Sleeve & Valve, M.J. – 1 Each

At Station 59+93.95, 5.31' Rt., delete the 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)
12" Retainer Glands, M.J. – 2 Each (delete)

At Station 60+56.27, 5.35' Rt., add a 12" Solid Sleeve and 6" Gate Valve. Quantities as follows:

12" Solid Sleeve, M.J. – 1 Each
6" Gate Valve, M.J. – 1 Each
12" Retainer Glands, M.J. – 2 Each
6" Retainer Glands, M.J. – 2 Each

19. Refer to Plan Sheets 249, Water Main

At Station 65+43.11, 4.48' Rt., delete the 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)
12" Retainer Glands, M.J. – 2 Each (delete)

At Station 65+66.13, 7.78' Rt., add a 12" Solid Sleeve. Quantities as follows:

12" Solid Sleeve, M.J. – 1 Each
12" Retainer Glands, M.J. – 2 Each

At Station 65+35.70, 19.13' Rt., add a 6" Dual Purpose Sleeve. Quantities as follows:

6" Dual Purpose Sleeve, M.J. – 1 Each

6" Dual Purpose Retainer Glands, M.J. – 2 Each

20. Refer to Plan Sheets 250, Water Main

At Station 74+41.26, 15.0' Rt., add a 12" x 4" Tapping Sleeve & Valve. Quantities as follows:

12" x 4" Tapping Sleeve & Valve, M.J. – 1 Each

At Station 73+16.77, 10.29' Rt., add a 12" Solid Sleeve. Quantities as follows:

12" Solid Sleeve, M.J. – 1 Each

12" Retainer Glands, M.J. – 2 Each

At Station 73+71.45, 7.80' Rt., add a 6" Dual Purpose Sleeve. Quantities as follows:

6" Dual Purpose Sleeve, M.J. – 1 Each

6" Dual Purpose Retainer Glands, M.J. – 2 Each

At Station 73+78.76, 10.50' Rt., delete 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)

12" Retainer Glands, M.J. – 2 Each (delete)

21. Refer to Plan Sheets 251, Water Main

At Station 80+39.23, 12.05' Rt., add 12" Solid Sleeve. Quantities as follows:

12" Solid Sleeve, M.J. – 1 Each

12" Retainer Glands, M.J. – 2 Each

At Station 80+42.58, 12.11' Rt., delete the 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)

12" Retainer Glands, M.J. – 2 Each (delete)

22. Refer to Plan Sheets 252, Water Main

At Station 85+03.92, 31.0' Rt., add 12" x 4" Tapping Sleeve & Valve. Quantities as follows:

12" x 4" Tapping Sleeve & Valve, M.J. – 1 Each

At Station 86+55.62, 46.86' Rt., add 6" Dual Purpose Sleeve. Quantities as follows:

6" Dual Purpose Sleeve, M.J. – 1 Each

6" Dual Purpose Retainer Glands, M.J. – 2 Each

At Station 86+33.12, 35.83' Rt., add 8" Gate Valve and 12" Solid Sleeve. Quantities as follows:

8" Gate Valve, M.J. – 1 Each
8" Retainer Glands, M.J. – 2 Each
12" Solid Sleeve, M.J. – 1 Each
12" Retainer Glands, M.J. – 2 Each

At Station 86+ 36.54, 35.92' Rt., delete 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)
12" Retainer Glands, M.J. – 2 Each (delete)

At Station 87+04.55, 37.37' Rt., add 12" Solid Sleeve. Quantities as follows:

12" Solid Sleeve, M.J. – 1 Each
12" Retainer Glands, M.J. – 2 Each

23. Refer to Plan Sheets 253, Water Main

At Station 90+25.40, 33.03' Rt., delete 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)
12" Retainer Glands, M.J. – 2 Each (delete)

At Station 90+28.62, 29.55' Rt., Relocate the 12" Butterfly Valve and Retainer Glands to Station 90+28.62, 45.0' Lt.

At Station 93+55.49, 67.10' Lt., delete 12" Butterfly Valve. Deleted quantities as follows:

12" Butterfly Valve, M.J. – 1 Each (delete)
12" Retainer Glands, M.J. – 2 Each (delete)

At Station 93+55.49, 67.10' Lt., add 8" Gate Valve. Quantities as follows:

8" Gate Valve, M.J. – 1 Each
8" Retainer Glands, M.J. – 2 Each

24. Refer to Plan Sheets 255, Water Main

At Station 100+57.01, 63.46' Lt., Relocate the 12" Butterfly Valve and Retainer Glands to Station 99+50.00, 65.00' Lt.

At Station 103+52.39, 39.22' Lt., build a 12" x 8" tapping sleeve and valve for water service to future development at southeast corner of 48th and "O" Street (location to be verified with Engineer prior to construction). Quantities as follows:

12" x 8" Tapping Sleeve and Valve, M.J. – 1 Each
8" Water Main – 25 Linear Feet

8" Plug, M.J. – 1 Each
8" Solid Sleeve, M.J. – 1 Each
8" Retainer Glands, M.J. – 2 Each
Concrete for Thrust Blocks and Anchorages – 0.2 Cubic Yards

At Station 103+57.77, 39.14' Lt., build a new water service and fire service for the development at the southeast corner of 48th and "O" Street (location and size of services to be verified with Engineer prior to construction). Quantities as follows:

Construct Water Service – 1 Each
2" Copper Water Service Pipe – 118 Linear Feet
12" x 6" Tapping Sleeve and Valve, M.J. – 1 Each
6" Water Main – 118 Linear Feet
6" Plug, M.J. – 1 Each
6" Solid Sleeve, M.J. – 1 Each
6" Retainer Glands, M.J. – 2 Each
Concrete for Thrust Blocks and Anchorages – 0.1 Cubic Yard

25. Refer to Plan Sheets 256, Water Main

At Station 108+75.00, 31.08' Lt., add a 12" x 8" tapping sleeve and valve and water main items for water service to future development at north side of "O" Street (location to be verified with Engineer prior to construction). Quantities as follows:

12" x 8" Tapping Sleeve and Valve, M.J. – 1 Each
8" Water Main – 25 Linear Feet
8" Plug, M.J. – 1 Each
8" Solid Sleeve, M.J. – 1 Each
8" Retainer Glands, M.J. – 2 Each
Concrete for Thrust Blocks and Anchorages – 0.2 Cubic Yards

26. Refer to Plan Sheets 258, Water Main

At Station 196+84.04, 54.26' Rt., add 6" Gate Valve. Quantities as follows:

6" Gate Valve, M.J. – 1 Each
6" Retainer Glands, M.J. – 2 Each

At Station 197+81.94, 55.94' Rt., build a new water service and fire service for the development at the southeast corner of 48th and "O" Street (location and size of services to be verified with Engineer prior to construction). Quantities as follows:

Construct Water Service – 1 Each
2" Copper Water Service Pipe – 12 Linear Feet
12" x 6" Tapping Sleeve and Valve, M.J. – 1 Each
6" Water Main – 12 Linear Feet
6" Plug, M.J. – 1 Each
6" Solid Sleeve, M.J. – 1 Each
6" Retainer Glands, M.J. – 2 Each
Concrete for Thrust Blocks and Anchorages – 0.1 Cubic Yard

27. Refer to Plan Sheets 259, Water Main

At Station 199+22.77, 58.46' Rt., add 6" Gate Valve. Quantities as follows:

6" Gate Valve, M.J. – 1 Each
6" Retainer Glands, M.J. – 2 Each

At Station 200+60.53, 59.98' Rt., Relocate the 12" Butterfly Valve and Retainer Glands to Station 199+40.00, 58.00' Rt.

At Station 200+72.29, 60.07' Rt., revise the hydrant installation as follows to switch to a 12" x 8" Tee and the associated water main, valve and fitting.

Delete the 12" x 6" Tee, M.J.
Add 1-12" x 8" Tee, M.J.
Delete the 1-6" Retainer Gland, M.J.
Add 3-8" Retainer Glands, M.J.
Delete the 17.4 Linear Feet of 6" Water Main
Add 18 Linear Feet of 8" Water Main.
Delete the 6" Gate Valve, M.J.
Add 1-8" Gate Valve, M.J.
Add 1-8" x 6" Reducer, M.J.

At Station 203+43.07, 50.00' Rt., add a 12" x 8" tapping sleeve and valve and associated water main for future water main run to the east (water main to extend to right-of-way line. Quantities as follows:

12" x 8" Tapping Sleeve and Valve, M.J. – 1 Each
8" Retainer Glands, M.J. – 3 Each
8" x 11.25 Degree Bend, M.J. – 1 Each
8" Plug, M.J. – 1 Each
8" Solid Sleeve, M.J. – 1 Each
8" Retainer Glands, M.J. – 2 Each
Concrete for Thrust Blocks and Anchorages – 0.3 Cubic Yards

28. Refer to Plan Sheets 260, Water Main

At Station 207+88.25, 43.26' Rt., add 12" Solid Sleeve and 6" Gate Valve. Quantities as follows:

12" Solid Sleeve, M.J. – 1 Each
12" Retainer Glands, M.J. – 2 Each
6" Gate Valve, M.J. – 1 Each
6" Retainer Glands, M.J. – 2 Each

29. Refer to Plan Sheets 246 to 260, Water Main

The Contractor shall reconstruct the existing water services from the new water main tap to the curb stop unless otherwise directed by the Lincoln Water Department. The copper water

service pipes shall not be spliced under the new or existing roadway. The quantities shown on the bid form for the water service pipe, pavement and sidewalk removals, pavement construction, sidewalk construction and other incidental items have been revised to reflect this additional work.

30. Refer to Plan Sheets 259 to 260, Water Main

Add the following note:

The Contractor shall pothole the existing water main at the location of the proposed loops under the curb inlets at Station 206+25.40, Station 207+69.96, Station 210+99.87 and Station 212+56.29 prior to the start of water main work in this area to determine the elevation at the top of the existing water main. If the distance between the top of the existing water main and the bottom of the inlet or storm sewer pipe is 1'-6" or greater then the water main loop will not be constructed. The Contractor shall exercise extreme care during the potholing of the main so as not to damage the polyethylene encasement at the water main. Any damage to the polyethylene encasement shall be repaired by the Contractor to the satisfaction of the Engineer in accordance with the requirements outlined in the Standard and Supplemental Specifications. The work associated with the potholing of the existing water main and the survey work to determine the elevation of the existing main shall not be paid for directly but shall be considered subsidiary to other items for which direct payment is made.

31. Refer to Plan Sheets 284 through 350, Traffic Control

Delete the plan sheets and replace with the attached Traffic Control Plan Sheets reissued with this addendum. This includes the addition of Sheet 296A which outlines sign placement for the "O" Street detour route during Phase IB and IC construction. **If prospective Bidders are not able to plot 11" x 17" copies of the reissued traffic control plans they may contact Engineering Services, 531 Westgate Blvd., Lincoln, Nebraska (402-441-7711) to obtain a copy of the sheets that are reissued as part of this addendum.**

32. Refer to Pre-bid Meeting Minutes

See attached meeting minutes.

Response to questions received.

1. What type of grate is to be used at the curb inlets that are to be converted to grate inlets along the west side of 48th Street for the temporary pavement?

Refer to plan sheet 19 for details of the curb inlet conversion to a temporary grate inlet. The plans specify a Type "E" Grate per LSP 130.

APPENDIX A

PRIVATE FIRE SERVICE REQUIREMENTS

General Information

NFPA #24

The installation and testing of fire service mains is governed by NFPA pamphlet #24 entitled *Standard for the Installation of Private Fire Service Mains and Their Appurtenances*. It is strongly recommended that anyone undertaking the installation of fire services obtain, read and understand the installation requirements of this manual. A copy of this manual can be obtained from the National Fire Prevention Association, 1 Batterymarch Park, Quincy, MA 02269-9101 or call 1-800-344-3555.

Before you begin

- ▶ You must have an approved plan.
- ▶ Even if you have a plan developed by an Architect/Engineer firm, you must submit a plan or shop drawing to the State Fire Marshal or the Delegated Authority for review and comment.
- ▶ This plan or shop drawing must include and show 1. Point of tie in to the water source, 2. Length and size of the service 3. Depth of cover, 4. Thrust block and restraint details and sizing, 5. Type and listing of pipe (examples; class 52 ductile iron pipe - class 200-SDR 14 pvc, etc.).
- ▶ Obtain any local and state permits that are required.
- ▶ If the fire service is supplying a fire sprinkler system, call the fire sprinkler contractor to co-ordinate the size and location of the service and share information on the project.

Installation

- ▶ Materials and equipment must be "listed" and approved for fire protection service and comply with AWWA standards. Listed materials are those included in a list published by an organization acceptable to the Authority Having Jurisdiction. You must know that the materials you are using are of the correct type for this use.
- ▶ Installation of the materials should conform to the *Rules for Laying Buried Pipe* section of NFPA #24.
- ▶ Take special precautions to assure that thrust blocks and restraints are installed according to approved plans and the size and placement is correct (see attachment).
- ▶ Flanges inside the building should generally be 1 foot (12 inches) above the finished floor. The flange must also be "two holed". This means that the 2 holes closest to the wall should be parallel with the wall. The flange must also be level both ways (see attachment).

Testing Flushing and Certification and Approval

- ▶ Contact the State Fire Marshal's deputy or the Delegated Authority 48 hours in advance of pressure testing and flushing. Make sure the test / flush can be accomplished in the Deputy's presence to avoid a reschedule.
- ▶ Before asking for final approval of an installation by the Authority Having Jurisdiction, the installing company shall furnish a *Contractor's Material and Test certificate* countersigned by the property owner or representative (see attachment). Provide copies of *Contractor's Material and Test Certificate* to the Waterbased Fire Protection Contractor, to the owner, and to the Authority Having Jurisdiction.
- ▶ All underground fire service must be hydrostatically tested at not less that 200 psi for 2 hours or at 50 psi in excess of the maximum static pressure when the maximum static pressure is in excess of 150 psi.
- ▶ A minimum of a 2-1/2" flushing connection is required if the riser is larger than 2-1/2". If the riser to be connected to the service is smaller than 2-1/2", then the flushing connection may be the same size as the riser.
- ▶ Every private service must be flushed. The minimum rate of flow shall not be less than the water demand rate of the attached system which is determined by the system design or not less that necessary to provide a velocity of 10 ft. per second, whichever is greater. The flush shall be continued for a sufficient time to ensure thorough cleaning.

Flow required to provide 10 ft. per second*

pipe size	Flow rate
4"	390 gpm.
6"	890 gpm
8"	1,560 gpm
10"	2,440 gpm
12"	3,520 gpm

* Reference N.F.P.A. #20 -1995 edition

INSTALLATION OF PRIVATE FIRE SERVICE MAINS

INFORMATION FOR INSTALLATION, TESTING AND REPORTING

Contents

1. Nebraska State Fire Marshal letter concerning installation of Underground Fire Services
2. General Information
 - ▶ Before you begin
 - ▶ Installation
 - ▶ Testing, Flushing, Certification and Approval
3. Sample Fire Line Plan
4. Thrust Block Detail.
4. Rod Charts.
5. " 2 hole" flange layout
6. Contractors material and test Certificates.

If you need help with procedures concerning the installation of Underground Fire Services, you may contact The Nebraska State Fire Marshal's office at 402-471-2027.

The installing fire sprinkler contractor would also welcome your questions, about the fire service before you begin the project. Often times everyone will enjoy a more profitable job if we share information.

The information contained in this packet is intended to be used only as guidelines and examples. Each fire line must be evaluated individually to determine correctness of size, materials, installation methods and documentation. The Fire Sprinkler Contractors Association of Nebraska assumes no liability for misuse or misinterpretation of this information.

Provided by
The Fire Sprinkler Contractors Association of Nebraska
P.O. Box 80922
Lincoln NE 68501

January, 2002

Meeting Minutes
"O" Street Roadway and Water Main
Pre-Bid Meeting
at Lincoln Wastewater
December 8, 2005, 10:00 a.m. – 12:00 p.m.

Attendees:

Steve Samuelson	Constructors	
Eric Anderson	Constructors	434-1711
Michael McCullough	Pavers	786-5900
Matt Martin	Dobson Brothers	474-5715
Paul Claus Jr.	Commonwealth Electric	473-2232
Paul Hoegemeyer	Commonwealth Electric	432-5906
Bob Kallenbach	ABC Electric	435-3514
Chris Lane	Speece-Lewis Engineers	483-5466
Joe Glaser	Trafcon	434-1776
Peggy Shalla	All Roads Barricades	467-2553
Randy Kreifels	Aquila	437-1715
Ken Adams	Alltel	436-5794
Chuck Wahl	Lincoln Electric System	467-7618
Larry Kathol	Lincoln Electric System	467-7642
Al Cameron	Lincoln Electric System	467-7603
Mike Mandery	Lincoln Waste Water Service	441-7988
Roger Krull	Lincoln Waste Water Service	441-7985
Nick McElvain	Lincoln Water Service	441-5931
Michelle Backemeyer	City Real Estate	441-8617
Clint Thomas	City Real Estate	441-7569
Larry Jochum	City Engineering Services	441-6090
Dave Bernt	City Engineering Services	441-7564
Kelly Sieckmeyer	City Engineering Services	441-7454
Greg Topil	City Engineering Services	441-8232
Shane Dostal	City Engineering Services	441-6098
Dan Hassler	City Engineering Services	441-7714
Wayne Burcham	City Engineering Services	441-6094
Mark Miller	City Engineering Services	441-8236
Randy Hoskins	City Engineering Services	441-7570
Thomas Shafer	City Engineering Services	441-7837
Larry Duensing	City Engineering Services	441-8401
Bruce Sweney	City Engineering Services	441-8403
Mary Lowe	City Engineering Services	441-7540
Doug Schwartz	City Engineering Services	441-7452
Erin Sokolik	City Engineering Services	441-8321
Kris Humphrey	City Engineering Services	441-7592
Shayne Huxoll	Olsson Associates	458-5656
Justin Petersen	Olsson Associates	458-5958
Ryan Kosola	Olsson Associates	458-5006
Tom Leikam	Olsson Associates	458-5619

Project Overview

The “O” Street widening project includes widening of “O” Street from 45th to 52nd and reconstruction of 48th Street from “M” Street to “O” Street. The project also consists of water main work along “O” Street from 33rd to 48th and along 48th Street from “M” to “O” Street.

Construction for the project has been broken into four phases:

- Phase I includes construction of “O” Street and the east half of 48th Street. The substantial completion date for this work is August 25th. At this time “O” Street should be completed and open to traffic both vehicular and pedestrian, with pedestrian traffic using the sidewalk on the north side of the street. The contractor will be allowed lane closures after this substantial completion date to complete retaining wall and sidewalk work on the south side of “O” Street.
- Phase II construction includes all of the water main work and will be done concurrently with Phase I construction.
- Phase III construction consists of constructing the lanes on the west side of 48th Street.
- Phase IV construction includes turn lane and median work at 48th and R Street.

Construction staging may be provided at the City owned properties at the NE corner of 48th and “O” Street.

Access to businesses is very important during construction and during the pre-bid meeting construction access to each property was reviewed as outlined in the special provisions.

Utility Coordination

A discussion of the utility work that will be required for this project was reviewed. Alltel will have work that will be completed concurrently with construction of the project. This includes lowering of the phone duct along “O” Street between 46th and 48th, cable installation on the North side of “O” between 46th and 48th, relocation of the existing pole and down guy at the northeast corner of 46th and “O” Street and some relocation work at the NE corner of 48th and “R” Street. Alltel will also be lowering their existing duct along the west side of 48th Street and relocating some existing buried cables along the west side of 48th Street prior to the anticipated notice to proceed date.

Aquila also has facilities in this area and will require time to cap and abandon the 16” gas main located along “O” Street. The timing for the abandonment is dependent upon the temperature as outlined in the special provisions. Aquila has minimum average daily temperatures that must be attained before the abandonment work can begin. Aquila will also need to relocate existing 2- and 4-inch gas mains along “O” Street and 48th Street to accommodate construction of the new storm sewer for the project. Aquila will locate these facilities concurrently with the construction.

LES will be relocating their existing buried cable along the north side of “O” Street between 46th and 48th Street. This work will be completed concurrently with the construction of the project and can also be done concurrently with Alltel’s work associated with lowering of their duct bank along “O” Street between 46th and 48th Street. LES will be relocating a pole at the east side of 48th Street at approximately “N” Street to facilitate construction and will also remove the overhead power line between this location and “M” Street to facilitate construction of the project. Alltel and Time Warner will also be relocating their utilities that are attached to the overhead poles along the east side of 48th

Street between "M" and "N" Streets. The contractor will be responsible for the relocation of the existing traffic cables from this power line as part of this project.

LES will need to relocate or loop their existing buried cable along the west side of 48th Street near the south drive into Super Saver and at the southwest corner of 48th and "R" Streets to allow for construction of the storm sewer. LES will also need to relocate their existing buried cable at the northeast corner of 48th and "R" Street to facilitate construction of the new retaining wall. These relocations will be completed concurrently with the construction of the project. LES will also be installing temporary lighting for this project and removing the existing streetlights.

Time Warner has facilities along the north side of "O" Street between 46th and 48th Street, along the east side of 48th Street between "M" and "N" Street and at the northeast corner of 48th and "R" Streets. These facilities will be relocated concurrently with the project and will most likely be completed in conjunction with the LES or Alltel work in this area.

Status of ROW

The City is in the process of acquiring ROW for the project. It is anticipated that most of the ROW will be acquired by April 2006. The City is hopeful, that where necessary, property owners will sign a Right-of-Entry to allow the contractor to proceed with construction outside of ROW. Much of the work in the early phases of construction can be completed within existing ROW including the temporary signal at 52nd and "O" and the temporary widening along the west side of 48th Street.

Additional Items

The City outlined work to be added to the "O" Street contract that will be necessary to serve the proposed development on the SE corner of 48th and "O" Street. This work may include construction of a eastbound right turn lane along "O" Street between 48th and approximately 49th Street to serve the new development at the southeast corner, possibly lengthening of the northbound to eastbound right turn lane at the 48th and "O" Street intersection as required for the new development and addition of a driveway along 48th street at approximately "N" Street. The additional work will also include the addition of water and sewer services into the proposed development on the southeast corner of 48th and "O" Street.

The City requested that bid forms be submitted electronically to expedite the review and award process. A hard copy of the bid is still required and will govern over all other bids should there be an inconsistency. It was requested that contractors have all questions in by December 14th so that a final addendum can be issued by December 16th.

QUESTIONS

1. The Special Provision for Construction Staking requires that the contractor provide staking for the Utility companies as required to complete their relocations. Is it possible to get a scope of work for this item?

Response: The City will modify the construction staking special and bid form to provide a fixed hourly rate for a survey crew to provide staking of reference points or grades as directed by the Engineer for the utilities to complete their relocations. This will be part of the addendum.

2. Has the traffic control plan been reviewed by the City?

Response: The City has seen the plans, but did not have time to perform a full review of the final traffic plans. Revised traffic control plans will be issued as part of the addendum and additional clarification regarding the Contractor's responsibility for traffic control will be included in the addendum.

3. Does the City have the necessary ROW acquired for the temporary traffic signal work at 52nd and "O" Street?

Response: The temporary signal at this location will be constructed within existing ROW.

4. Has the City ordered traffic signal poles for the temporary signal at 52nd and "O" Street?

Response: This temporary traffic signal will use wood poles with down guys and span wire. The poles, span wire and down guys will be provided by the contractor and the City will provide the necessary signal heads.

5. During construction of the water main, utilities located in the north lanes of "O" Street will need to be potholed on a standby basis, that is, they will need to be uncovered as the boring work is being performed. How will this be accomplished?

Response: Lane closures will be allowed during off-peak periods to pothole utilities (this will require the westbound through traffic to be shifted to the center turn lane and left turns restricted).

